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PATENT TRADEMARK OFFICE

DARBY & DARBY P.C.

805 Third Avenue  
New York, New York 10022  
212-527-7700

Docket No: 2427/1G685US1

Box PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Enclosed please find an application for United States patent as identified below:

Inventor/s (name ALL inventors): Patrick F. Kelly  
Cordova, TN

Elio F. Vanin  
Memphis, TN

Title: HIGH EFFICIENT GENE TRANSFER INTO HUMAN REPOPULATION STEM  
CELLS BY RD114 PSEUDOTYPED RETROVIRAL VECTOR PARTICLES

including the items indicated:

1. Specification and 37 claims: 5 indep.; 32 dep.; 1 multiple dep.;  
including 46 page(s) of written description; 5 page(s) of claims;  
1 page(s) of abstract.
2.  Drawings, 1 sheets
3.  Executed Declaration/Power of Attorney  
 Unexecuted Declaration/Power of Attorney

4.  Application Data Sheet under 37 C.F.R. §1.76.
5.  Assignment for recording to: St. Jude Children's Research Hospital

Assignment was recorded at Reel No. , Frame No. , on .

Pursuant to 37 C.F.R. §1.215(b), please print the following assignment information on the face of the published application:

Assignee: St. Jude Children's Research Hospital

6.  The applicant claims small entity status.
7.  Priority is claimed under 35 U.S.C. §119(b) of:

Country:

Number:

Date:

A certified copy of the prior document  is enclosed  will follow  was filed in a previous application.

8.  Request and Certification under 35 U.S.C. §122(b)(2)(B)(i) for Nonpublication.
9.  Payment in amount of \$588.00, (\$588.00 filing; \$ recording) in the form of  
 check  
 deposit account no. 04-0100  
 credit card (see attached form)  
(See attached **Fee Computation Sheet**)
10.  Preliminary Amendment
11.  Information Disclosure Statement

The PRO did not receive the following  
listed item(s) check box \$588.00

Serial No.

Docket No. 2427/1G685US1

12.  Nucleotide or Amino Acid Sequence Listing.

Hard Copy       CRF

Date: March 7, 2001

Respectfully submitted,



Paul F. Fehlner, Ph.D.  
Reg. No. 35,135  
Attorney for Applicant(s)

U.S. Patent and Trademark Office  
1100 L Street, N.W.  
Washington, D.C. 20591  
(202) 707-7400

Serial No.

Docket No. 2427/1G685US1

PATENT FEE COMPUTATION SHEET

No. of Claims Presented	Extra Claims Previously Paid For	Number of Extra Claims	Rate
Basic Fee . . . . .			\$710.00
Total Claims 37 - 20	- 0 = 17	x \$18.00	\$306.00
Independent Claims 5 - 3	- 0 = 2	x \$80.00	\$160.00
Multiple Dependent Claims	- if so, add	\$270.00	\$0.00
Surcharge for late submission of filing fee and/or declaration (\$130.00)			\$0.00
<b>Subtotal . . . . .</b>			<b>\$1176.00</b>
<input checked="" type="checkbox"/> Small Entity REDUCTION (Half of Subtotal) . . . . .			\$588.00
Fee for recordation of assignment (\$40.00) . . . . .			\$0.00
Charge for filing non-English language application (\$130.00) . . . . .			\$0.00
<b>TOTAL . . . . .</b>			<b>\$588.00</b>